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07278

PATENT TRADEMARK OFFICE

Docket No: 0158/0K098

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Shyh-Haur **SU** et al.

Serial No.: 10/021,598

Art Unit: TBA

Filed: December 12, 2001

Examiner: TBA

For: **MULTI-REAGENT INKJET CARTRIDGE**

February 4, 2002

MARKED-UP VERSION OF PRELIMINARY AMENDMENT FILED FEBRUARY , 2001

IN THE CLAIMS:

1. (Amended) An inkjet cartridge for dispensing a predetermined amount of fluids comprising:

an inkjet print head having a plurality of fluid channels; and

[an array] a plurality of capillary tubes, filled with predetermined fluids, disposed on the inkjet print head so as to communicate with the fluid channels respectively and provide capillarity sufficient to prevent the fluids in the capillary tubes

from leaking through the fluid channels but not so great as to prevent the fluids in the capillary tubes from dispensing through the fluid channels.

2. (Amended) The inkjet cartridge as claimed in claim 1, wherein the inkjet print head comprises:

a base, having a plurality of first through holes corresponding to the capillary tubes respectively, for receiving the capillary tubes;

an inkjet chip, for actuating the fluids in the capillary tubes to dispense, disposed on the base and provided with a plurality of second through holes corresponding to the first through holes respectively; and

a nozzle plate, for dispensing the fluids in the capillary tubes, disposed on the inkjet chip and provided with a plurality of orifices corresponding to the second through holes respectively, wherein the first through holes, the second through holes and the orifices form the fluid channels respectively.

5. (Amended) The inkjet cartridge as claimed in claim 1, wherein [each] parts of the capillary tubes [is] are filled with gel-like materials above the received fluid so as to prevent the fluid from leaking.

6. (Amended) The inkjet cartridge as claimed in claim 1, wherein [each] parts of the capillary tubes [is] are filled with oil-like materials above the

received fluid so as to prevent the fluid from leaking.

10. (Amended) A cartridge for dispensing a predetermined amount of reagents comprising:

a print head having a plurality of fluid channels; and

[an array] a plurality of capillary tubes, filled with predetermined reagents, disposed on the print head so as to communicate with the fluid channels respectively and provide capillarity sufficient to prevent the reagents in the capillary tubes from leaking through the fluid channels but not so great as to prevent the reagents in the capillary tubes from dispensing through the fluid channels.

11. (Amended) The cartridge as claimed in claim 10, wherein the print head comprises:

a base, having a plurality of first through holes corresponding to the capillary tubes respectively, for receiving the capillary tubes;

[a] an inkjet chip, for actuating the reagents in the capillary tubes to dispense, disposed on the base and provided with a plurality of second through holes corresponding to the first through holes respectively; and

a nozzle plate, for dispensing the reagents in the capillary tubes, disposed on the inkjet chip and provided with a plurality of orifices corresponding to the second through holes respectively, wherein the first through holes, the second through holes

and the orifices form the fluid channels respectively.

14. (Amended) The cartridge as claimed in claim 10, wherein [each] parts of the capillary tubes [is] are filled with gel-like materials above the received reagent so as to prevent the reagent from leaking.

15. (Amended) The cartridge as claimed in claim 10, wherein [each] parts of the capillary tubes [is] are filled with oil-like materials above the received reagent so as to prevent the reagent from leaking.

Please add the following new claims:

19. (New) The inkjet cartridge as claimed in claim 1, wherein the capillary tubes are disposed on the inkjet print head in an array manner.

20. (New) The cartridge as claimed in claim 10, wherein the capillary tubes are disposed on the print head in an array manner.

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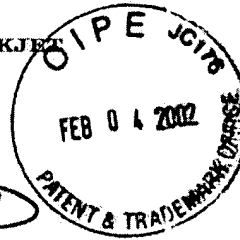
I. PRELIMINARY AMENDMENT W/MARKED-UP VERSION OF
SAME

APPLICANT : SHYH-HAUR SU ET AL.
SERIAL NO. : ~~10/021,598~~
FILED : DECEMBER 12, 2001
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CARTRIDGE

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